



TANGO
Device
Server

Image File Reader User's Guide

ImgFileReader Class

Revision: release_1_1_2 - Author: julien_malik
Implemented in C++

Introduction:

The device reads a 8-bit graphic file and provides an Tango attribute containing its data. If it is a RGB file, it is automatically converted to grayscale. It supports the following file formats : - Windows Bitmaps - BMP, DIB - Portable image format - PBM, PGM, PPM - Sun rasters - SR, RAS (only uncompressed) - TIFF files - TIFF, TIF (uncompressed, packbits, jpeg, zip) - JPEG files - JPEG, JPG, JPE - Portable Network Graphics - PNG

Class Inheritance:

- Tango::Device_3Impl
 - ImgFileReader

Properties:

There is no Class properties.
There is no Device Properties.

States:

States	
Names	Descriptions
RUNNING	The file has been read and processed succesfully
FAULT	An error occured, most probably the file does not exist at the specified path. The status provides more extensive information on the error

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
filename: the complete path to the file to read	DEV_STRING	READ_WRITE	No

Image Attributes				
Attribute name	Data Type	X Data Length	Y Data Length	Expert
image	DEV_UCHAR	131072	131072	No

Commands:

More Details on commands....

Device Commands for Operator Level

Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.
After an Init command executed on a device, it is not necessary for client to re-connect to the device.
This command first calls the device *delete_device()* method and then execute its *init_device()* method.
For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::FAULT

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::RUNNING
 - Tango::FAULT

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description

- **Command allowed for:**

- Tango::RUNNING

- Tango::FAULT

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